

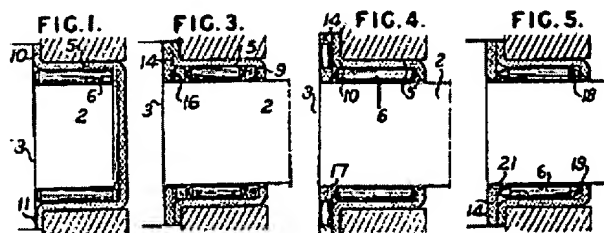
Improvements in or relating to combined rotary and thrust bearing units

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DES
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Abstract of GB820237

820,237. Bearings. PITNER, A., and ROULEMENTS A AIGUILLES S.A., DES. May 2, 1957 [May 2, 1956], No. 13980/57. Class 12 (1). A cylindrical roller bearing for a shaft 2 comprises rollers 6 and an outer race 5 having an outwardly-extending flange 10, integral therewith, adapted to co-operate with a collar 3 on the shaft 2 to form a thrust-bearing. The outer race may be cup-shaped, as shown in Fig. 1, or, alternatively, the shaft 2 may pass through an aperture in the base of the cup. The face 11 of the flange may be plane or it may have the form of a segment of a torus having a large radius of curvature. A reinforcing abutment plate 14, Fig. 3, may be interposed between the collar 3 and face 11 of the flange. In this embodiment, the needles 6 are mounted in a cage 16. In a modification, shown in Fig. 4, bearing elements 17 are arranged in an abutment plate 14. In a further modification, an abutment plate 14 and opposite end 9 of the outer race have projections 21, 19 which overlie tapered ends 18 of rollers 6.



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